



Molecular Metabolisms in Cartilage Health and Diseases 2.0

Guest Editor:

Dr. Masaharu Takigawa

Advanced Research Center for
Oral and Craniofacial Sciences,
Faculty of Medicine, Dentistry
and Pharmaceutical Sciences,
Okayama University, Okayama
700-8525, Japan

Deadline for manuscript
submissions:

closed (30 November 2023)

Message from the Guest Editor

Dear Colleagues,

This Special Issue is the continuation of our previous Special Issue “[Molecular Metabolisms in Cartilage Health and Diseases](#)”

Cartilage is a unique tissue in that it is avascular and composed of only chondrocytes. Vascular invasion into cartilage is a key step towards endochondral bone formation, as well as being involved in the pathogenesis of osteoarthritis. Because of the lack of blood flow, regeneration or repair of damaged cartilages such as those in osteoarthritis is difficult to be achieved. The old-yet-new problems in cartilage medicine are how to maintain cartilage homeostasis and how to regenerate or repair damaged cartilage. Many factors such as growth factors, transcription factors, nutrition and its metabolites, extracellular matrix, and physical forces are involved in cartilage growth, homeostasis, and regeneration. This Special Issue titled “Molecular Metabolisms in Cartilage Health and Diseases” focuses on recent progress in the molecular aspect of cartilage metabolism and its regulation in normal as well as in diseased cartilage.





an Open Access Journal by MDPI

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

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.

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, CAPus / SciFinder, and other databases.

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

Contact Us

*International Journal of Molecular
Sciences* Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/ijms
ijms@mdpi.com
X@IJMS_MDPI