





an Open Access Journal by MDPI

# **Molecular Aspects of Cartilage Biology**

Guest Editor:

### Dr. Michela Geminiani

1. Department of Biotechnology Chemistry & Pharmacy, University of Siena, Via A. Moro, 53100 Siena, Italy 2. SienabioACTIVE, University of Siena, Via A. Moro, 53100 Siena, Italy

Deadline for manuscript submissions:

30 September 2024

# Message from the Guest Editor

Dear Colleagues,

Articular cartilage, which is a highly specialized tissue, consists mainly of a dense extracellular matrix (ECM) comprising type II collagen fibers, proteoglycans, and water; this is alongside the dispersal of its distinctive cell type, chondrocytes, within the ECM. Chondrocytes play a crucial role in maintaining the cartilage matrix by producing and releasing collagen, proteoglycans, and the enzymes involved in cartilage metabolism. The metabolic function of chondrocytes is governed by the mechanical stress experienced by the tissue.

This Special Issue aims to explore cutting-edge advancements in Cartilage Biology, shedding light on the latest research, methodologies, and breakthroughs regarding the structure, function, and regeneration of cartilage tissues. We welcome contributions encompassing molecular mechanisms, chondrocytes interactions, and translational approaches that enhance our comprehension of cartilage-related disorders and potential therapeutic interventions.













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, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q1 (*Biochemistry & Molecular Biology*) / CiteScore - Q1 (*Inorganic Chemistry*)

### **Contact Us**