

Special Issue

Molecular Aspects of Cartilage Biology

Message from the Guest Editor

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.

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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.

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