

## 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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### Deadline for manuscript submissions

closed (20 October 2025)



## International Journal of Molecular Sciences

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Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



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*International Journal of  
Molecular Sciences*  
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