

Special Issue

Emerging Biomaterials for Cartilage Regeneration

Message from the Guest Editor

The aim of this Special Issue is to share with the scientific community useful results for the development and application of glycosaminoglycan (also chemically modified)-based materials/scaffolds/gels/sheets to improve cartilage regeneration. Another purpose is to shed light on the new biochemical mechanisms related to cartilage regeneration.

Original research articles and mini- and complete reviews are welcome.

Potential topics include, but are not limited to, the following:

The design and preparation of scaffolds based on modified or unmodified glycosaminoglycans for the purpose of cartilage regeneration;
The development of gels/scaffolds/biomaterials/sheets for implanting mesenchymal or articular cells;
The regulation of anti-oxidant and anti-inflammatory effects;
The development of methods to prepare cells for use in cartilage regeneration;
New strategies for the functionalization of biomaterials;

The development of medical devices based on glycosaminoglycans produced by biotechnological means with potential applications in the treatment of osteoarthritic diseases.

Guest Editor

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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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