

Special Issue

Research Advances in Bone and Cartilage Tissue Engineering

Message from the Guest Editors

Bone and cartilage are important organ/tissues that are responsible for human body movement. Fracture non-union or segmental bone defects are clinical challenges for orthopedic surgeons. Osteoporosis greatly increases the risk of fractures in the older population. Bone healing disorders significantly affect patients' quality of life and can even cause disability. Articular cartilage that covers the joint surfaces has limited capacity for self-repair and healing due to the lack of blood vessels. Adult cartilage injuries larger than 5 mm never heal without intervention. Age-related or post-traumatic arthritis affected 32.5 million USA adults and estimated 654.1 million individuals (40 years and older) with knee OA in 2020 worldwide. Currently, joint replacement remains the ultimate cure. Researchers in the past two decades have made significant advances using stem cells, gene therapy, and sustained release of biomaterials for the delivery of growth factors for bone and cartilage regeneration, but few have translated these achievements into new clinical therapies for treating patients and curing these diseases.

Guest Editors

Dr. Xueqin Gao
Prof. Dr. Arvydas Usas
Dr. Hongshuai Li

Deadline for manuscript submissions

closed (30 April 2024)



Life

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.0
Indexed in PubMed



mdpi.com/si/145559

Life
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
life@mdpi.com

[mdpi.com/journal/
life](https://mdpi.com/journal/life)





Life

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.0
Indexed in PubMed



[mdpi.com/journal/
life](https://mdpi.com/journal/life)



About the Journal

Message from the Editor-in-Chief

Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

Editor-in-Chief

Prof. Dr. Lluís Ribas de Pouplana

Institute for Research in Biomedicine (IRB Barcelona), The Barcelona
Institute of Science and Technology, 08028 Barcelona, Spain

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, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Biology) / CiteScore - Q1 (Paleontology)