Special Issue

Bone Regeneration, Osteoclastogenesis, Osteoporosis and Osteoarthritis

Message from the Guest Editor

Load-bearing joints like the knee, hip, ankle, temporomandibular joint (TMJ), and spine perform the specialized functions of mechanical loading are frequently exposed to high-stress conditions. This symmetry between bone formation and bone resorption can be disrupted due to changes in physiological condition, traumatic mechanical alterations and genetic variations, causing a break down of joints via osteoarthritis or bone diseases like osteoporosis. Further, bone morphology change is considered a hall mark of advanced osteoarthritis. Therefore, it becomes essential for us to understand the underlying molecular mechanisms and complex interactions of bone regeneration and osteoclastogenesis. The following are the topics of interest to this Special Issue:

- Molecular mechanisms underlying bone regeneration and bone resorption;
- Molecular mechanisms associated with osteoporosis that could serve as therapeutic targets;
- Identification of new therapeutic targets in osteoclastogenesis for disease treatment;
- Tissue engineering-based solutions for promoting bone regeneration.

Guest Editor

Dr. Prashant Chandrasekaran

Division of Cardiology, Department of Pediatrics, The Children's Hospital of Philadelphia, Philadelphia, PA, USA

Deadline for manuscript submissions

closed (30 June 2024)

Biomedicines

an Open Access Journal by MDPI

Impact Factor 3.9
CiteScore 6.8
Indexed in PubMed

mdpi.com/si/192619

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

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Message from the Editor-in-Chief

Biomedicines (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to Biomedicines, be it original research, review articles, or developing Special Issues of current key topics.

Editor-in-Chief

Prof. Dr. Felipe Fregni
1. Neuromodulation Center and Center for Clinical Research Learning, Spaulding Rehabilitation Hospital and Massachusetts General Hospital, Harvard Medical School, Boston, MA 02114, USA
2. Department of Epidemiology, Harvard T.H. Chan School of Public Health, Boston, MA 02115, USA

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