Special Issue

Fish Model: Molecular and Cellular Basis of Bone Development and Homeostasis

Message from the Guest Editors

Skeletal pathologies are an increasing concern in our societies, including osteoporosis, osteopetrosis, craniofacial abnormalities, osteoarthritis, and vertebral deformities. They can be caused by genetic defects or predispositions but are also recognized to result from environmental or dietary influences. Fish are increasingly used as models with which to study skeletal development and homeostasis, including small fish species such as zebrafish and medaka for biomedical and genetic studies, as well as larger aquaculture species for assessing environmental factors. This Special Issue on fish models aims to emphasize the importance of these models for studying the molecular and cellular mechanisms underlying normal and pathological skeletal conditions. It will further present technical and methodological progress, as well as bottlenecks and limitations, in this field. In this context, we invite review articles that address the above-mentioned issues from a biological perspective and original research papers contributing to a better understanding of the processes involved.

Guest Editors

Dr. Marc Muller

Laboratory for Organogenesis and Regeneration, Université de Liège, GIGA-R B34, Sart Tilman, 4000 Liège, Belgium

Prof. Dr. Eckhard Witten

Research Group Evolutionary Developmental Biology, Ledeganckstraat 35, 9000 Gent, Belgium

Deadline for manuscript submissions

closed (31 October 2023)

Biomolecules

an Open Access Journal by MDPI

Impact Factor 4.8
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/144551

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

mdpi.com/journal/biomolecules

Biomolecules

an Open Access Journal by MDPI

Impact Factor 4.8
CiteScore 9.2
Indexed in PubMed

mdpi.com/journal/biomolecules

About the Journal

Message from the Editorial Board

Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

Editors-in-Chief

Prof. Dr. Peter E. Nielsen
Department of Cellular and Molecular Medicine, Faculty of Health and Medical Sciences, University of Copenhagen, Blegdamsvej 3C, DK-2200 Copenhagen, Denmark

Prof. Dr. Lukasz Kurgan
Department of Computer Science, Virginia Commonwealth University, Richmond, VA 23284, USA

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, MEDLINE, PMC, Embase, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Biochemistry)

MDPI