



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

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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.





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