

Special Issue

Ferroptosis Mechanisms and Bone Diseases

Message from the Guest Editor

Ferroptosis, a regulated form of cell death, is characterized by iron-dependent accumulation and lipid peroxidation. It is closely related to multiple biological processes, including iron metabolism, polyunsaturated fatty acid metabolism, and the biosynthesis of compounds with antioxidant activities, including glutathione. Recent studies have shown that ferroptosis is important in regulating the occurrence and development of bone-related diseases, but its underlying mechanisms are not completely clear. This Special Issue will focus on the role of ferroptosis in the pathophysiology and treatment of common bone diseases (namely bone marrow damage, osteoporosis, osteoarthritis, osteosarcoma, etc.), which will open up new avenues for the prevention and treatment of orthopedic diseases. Original research and review articles are particularly welcome in this Special Issue.

Guest Editor

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Deadline for manuscript submissions

closed (28 February 2025)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/216018

*International Journal of
Molecular Sciences*
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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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