

Special Issue

Molecular Research on Apoptosis and Autophagy in Osteosarcoma

Message from the Guest Editors

Osteosarcoma is the most common malignant bone cancer. It originates from osteoblasts of mesenchymal origin that produce an immature osteoid matrix. Current treatment recommendations for osteosarcoma include neoadjuvant chemotherapy, surgical resection, and adjuvant chemotherapy. Typically, the malignant transformation of normal cells and benign tumors evades apoptosis through an imbalance between programmed cell death and proliferation. Apoptosis is not the only type of programmed cell death that has been observed recently; autophagy and necroptosis, in particular, are being extensively researched in the field of cancer biology. Autophagy is a self-degradative process involving lysosomal degradation that regulates cell survival by removing and recycling cellular components. Necroptosis is a caspase-independent, fail-safe type of programmed cell death. This Special Issue focuses on "Molecular Research on Apoptosis and Autophagy in Osteosarcoma" in vitro, ex vivo, and/or in vivo studies. We warmly welcome submissions, including original papers and reviews, on this widely discussed topic.

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Deadline for manuscript submissions

20 September 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/215331

*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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