

## 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.

### Guest Editors

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### Deadline for manuscript submissions

closed (20 September 2025)



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The *International Journal of Molecular Sciences (IJMS)* 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, and molecular biophysics. *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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