Special Issue

Osteosarcoma: Molecular Alterations, Heredity, and Metabolism

Message from the Guest Editor

Osteosarcoma (OS) is the most common pediatric primary non-hematopoietic bone tumor. It arises mainly in the long bones of the extremities and the main feature is the detection of osteoid matrix produced by neoplastic cells. The etiology of osteosarcoma remains poorly understood. This tumor has a complex karyotype, and it is a so-called “orphan cancer” with no known driver oncogenes. It is essential to investigate new specific molecular therapies for osteosarcoma to increase the survival rate of patients. These data could offer the opportunity to get a key molecular target to identify possible new strategies for early diagnosis and new therapeutic approaches for osteosarcoma and to provide a tailored treatment for each patient based on their genetic profile.This Special Issue aims to enhance the ongoing efforts to define the sporadic and hereditary genetic and epigenetic changes that are associated with tumor formation and those associated with progression and metastasis.

Guest Editor

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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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