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Osteosarcoma: Molecular Alterations, Heredity, and Metabolism

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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.

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Message from the Editor-in-Chief

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