

Special Issue

Bone Cancer: From Molecular Mechanism to Treatment

Message from the Guest Editors

In recent years, significant advancements have been made in the medical field for the treatment of bone cancer. High-dose chemotherapy has improved treatment outcomes, and the application of magnetic resonance imaging (MRI) and computed tomography (CT) scans has clearly shown the specific location, extent, and degree of invasion of bone cancer. These advancements have facilitated the complete surgical removal of bone cancer, thereby significantly increasing the success rate of limb salvage surgeries and reducing the need for amputation in a small fraction of patients with bone cancer. Consequently, the five-year survival rate for primary bone cancer can reach 70% or higher when detected and treated early. Nonetheless, if the cancer is at an advanced stage or has metastasized, the five-year survival rate can drop to below 30%. Conventional chemotherapeutic agents tend to be ineffective against metastatic bone cancer due to its heightened malignancy and propensity for invasion. Therefore, there is a pressing need to identify new pre-treatment prognostic markers and develop new targeted drugs as adjuvants for chemotherapy.

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