

Special Issue

Stem Cells in Oncology: Emerging Targets for Therapy

Message from the Guest Editors

Cancer treatment is a challenging task; thus, current therapeutics must be improved in order to achieve better outcomes. Understanding tumorigenesis would aid in the development of drugs for cancer treatment; however, the resistance developed by cancer cells after cancer therapies must be overcome. A distinguishing characteristic of cancer stem cells (CSCs) is that they cause relapse in solid as well as liquid tumors after remission, and recent studies have shown that CSCs can develop resistance against the cancer immunotherapy. Understanding the mechanisms implicated in the formation, self-renewal, quiescence, and adaptability of CSCs would enable the development of a multidirectional strategy for targeting and eradicating cancer stem cells. CSCs interact with tumor microenvironments in a reciprocal manner, thus playing a significant role in the development of cancer. A comprehensive understanding of the interaction between the tumor microenvironment and CSCs would enable CSCs to be targeted, inhibiting stemness and quiescence, overcoming treatment resistance, and increasing immune sensitivity.

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