

Special Issue

Cancer Stem Cells in Solid Tumors

Message from the Guest Editor

Cancer stem cells (CSCs) represent a small subpopulation of cells within tumors that share similarities with normal stem cells of the human body, mainly their capabilities of self-renewal and multilineage differentiation. These properties make CSCs a crucial instrument of tumor progression and a source of tumor regrowth after treatment. There is still a strong need for further characterization of their molecular and cellular phenotypes, which in turn should result in better understanding of the pathogenesis of malignancies, mechanisms of disease recurrences and multidrug and/or radio resistance. This knowledge will have a huge impact on novel, innovative, targeted drug delivery against cancer stem cells.

I welcome manuscripts focusing on the genetic and epigenetic control of CSC properties, changes in CSCs metabolism, cellular and molecular mechanisms governing the epithelial to mesenchymal transition (EMT), and deregulated signaling pathways associated with therapy resistance. Particular emphasis must also be put on the tumor microenvironment's (TME) role in maintaining cancer stem cell niches and promoting cancer stem cell plasticity and differentiation properties.

Guest Editor

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