

Special Issue on  
**Cancer: Perspectives from Stem/Pluripotent Cells and Differentiation**

# CALL FOR PAPERS

Cancer is an (epi) genetic disease. Over the years, a large amount of information has been collected regarding genetic and epigenetic changes associated with cancer. Cancer is also a dynamic process, which often requires the right genetic and epigenetic mutations to happen in the right cells at the right time. However, most investigations of these issues were conducted on established cell lines representing only the end point of cancer development. The cells that initiate tumor formation following accumulation of the mutations have, until recently, remained elusive. Another important aspect of cancer is its metastasis. It is crucial to understand the interplay between circulating cancer cells and niche cells.

On the other hand, stem cells with the ability to differentiate into different cell lineages represent a unique and powerful system to address some of the fundamental questions in the process of tumorigenesis, such as the following: From what type of cells does the cancer initiate? How do the genetic and epigenetic modifications contribute to initiation and progression? Does the temporal order of different genetic mutations matter? It is likely that circulating cancer cells hijack pathways utilized by normal stem cells to interact with “niche” cells, but what are these pathways and how does this “hijacking” occur?

The use of stem/pluripotent cells and their differentiation processes as models offers novel insights about tumorigenesis that cancer cell lines cannot. We encourage submissions related to these concepts. In addition to original research articles, we welcome review articles.

Potential topics include but are not limited to the following:

- ▶ Tumor cell of origin
- ▶ Cancer-related signaling pathways using stem/pluripotent cells
- ▶ Animal models, lineage tracing addressing tumor cell of origin
- ▶ Interactions between cancer/normal circulating cells and niche cells in the skeletal systems
- ▶ Oncogene and tumor suppressor gene studies using stem/pluripotent/precursor cells
- ▶ Genetics and epigenetics of stem cell differentiation
- ▶ Immunology of stem cells and relevance to cancer

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/sci/cpsp/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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