

# Special Issue

## Stem Cell Biology and Cancer

### Message from the Guest Editors

Many, if not all, cancers arise from the transformation of a stem/progenitor cell that gives rise to the cells of a tissue. At least two genetic insults are needed for cancer. The first gives rise to a cancer initiating cell (preleukemic) that remains dormant because these cells are found in persons who will never develop cancer. The second insult transforms the cancer initiating cell into a cancer stem cell that is required for cancer. These cells sustain a cancer, by generating a hierarchy of differentiating or partially differentiating cells, and they are also largely responsible for disease relapse and metastasis. There is the urgent need to develop new treatments for cancer that can eliminate cancer stem cells. The aim of this Special Issue is to explore the nature of normal stem cells and cancer stem cells, the extracellular and intracellular controls on the behaviour of these cells, and how differences between normal stem cells and cancer stem cells might be exploited to provide new therapeutics.

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### Guest Editors

Prof. Dr. Geoffrey Brown

Dr. Carolina Vicente-Dueñas

Dr. Isidro Sanchez-Garcia

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### Deadline for manuscript submissions

closed (31 March 2023)



## International Journal of Molecular Sciences

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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### Editor-in-Chief

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