

## Special Issue

# Cancer Stem Cells in Basic Science and in Translational Oncology

### Message from the Guest Editors

Cancer stem cells (CSCs) are a small subpopulation of cells within malignant tumors gifted with self-renewal, differentiation, and tumorigenicity capabilities when transplanted in animals. Their ability to generate differentiated cells is thought to contribute to tumor heterogeneity. CSCs are intrinsically therapy-resistant and therefore are considered to be at the origin of recurrence in cancer patients following chemoradiation therapy. This issue will focus on recent advances in the discovery of targeted therapies, translation of diagnostic assays, therapeutic interventions aimed at reducing the CSCs load in cancer patients, precision medicine, and the role of CSCs in chemoradiation resistance and cancer progression, with the aim to highlight emerging therapeutic strategies against these highly malignant cells. Pure clinical studies will not be suitable, but clinical submissions with biomolecular studies having the major goal to translate into the clinic findings related to the role of CSCs in the progression of cancer are welcomed.

### Guest Editors

Prof. Dr. Pier Paolo Claudio

Dr. Célia Maria Freitas Gomes

Dr. Sara R. Martins-Neves

### Deadline for manuscript submissions

closed (31 December 2021)



## 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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