



life



an Open Access Journal by MDPI

Origins, Properties, and Therapeutic Perspectives of Cancer Stem Cells

Guest Editors:

Dr. Aglaia Pappa

Department of Molecular Biology
& Genetics, Democritus University
of Thrace, 68100
Alexandroupolis, Greece

**Dr. Georgia-Persephoni
Voulgaridou**

Department of Molecular Biology
& Genetics, Democritus University
of Thrace, 68100
Alexandroupolis, Greece

Deadline for manuscript
submissions:

closed (30 December 2022)

Message from the Guest Editors

Dear Colleagues,

Cancer is a multifactorial disease accounting for nearly 10 million deaths worldwide. One of the greatest challenges for cancer therapeutics is the heterogeneity of cancer cells. Specifically, a small subpopulation of cells, named cancer stem cells (CSCs), is identified in almost all cancer types. These cells exhibit a set of stem-like properties, e.g., altered cell cycle regulation, multipotency, self-renewal, tumorigenicity and enhanced metastatic potential. CSCs can survive through chemotherapy and/or radiation therapy, thus leading to cancer recurrence. Considering the clinical perspectives of CSCs, it is important to investigate their origins as well as their function during cancer transformation and progression processes. Finally, it is crucial to characterize CSC biomarkers and to identify novel strategies for targeting these cells.

In this Special Issue, novel findings will be presented regarding all aspects of CSC research, including their origins, properties, biomarkers, and clinical relevance, as well as novel therapeutic approaches targeting CSCs.

Prof. Dr. Aglaia Pappa
Dr. Georgia-Persephoni Voulgaridou
Guest Editors



mdpi.com/si/89749

Special Issue



life



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Lluís Ribas de Pouplana

Institute for Research in Biomedicine (IRB Barcelona), The Barcelona Institute of Science and Technology, 08028 Barcelona, Spain

Message from the Editor-in-Chief

Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [PMC](#), [CAPlus / SciFinder](#), [AGRIS](#), and [other databases](#).

Journal Rank: JCR - Q1 (Biology) / CiteScore - Q1 (Paleontology)

Contact Us

Life Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/life
life@mdpi.com
[X@Life_MDPI](#)