

Special Issue

Targeting Cancer Stem Cells and Mechanisms of Therapy Resistance

Message from the Guest Editors

This Special Issue aims to provide a comprehensive platform for the latest research on the pivotal role of Cancer Stem Cells (CSCs) in tumor progression and clinical failure. As the primary drivers of intratumoral heterogeneity, CSCs possess unique self-renewal and plastic properties that enable them to survive conventional treatments, leading to recurrence and metastasis. This Issue seeks to unravel the complex molecular landscapes that govern CSC survival, from intrinsic signaling pathways and DNA repair mechanisms to extrinsic influences from the tumor microenvironment (TME). The scope of the Issue encompasses a broad range of topics within molecular oncology, with a focus on identifying novel biomarkers and therapeutic targets specifically associated with the stem-like phenotype. We invite original articles and reviews that explore the mechanisms of chemo- and radio-resistance, including metabolic reprogramming, epigenetic modifications, and immune evasion strategies. Furthermore, we encourage submissions that discuss innovative therapeutic approaches, such as small molecule inhibitors, immunotherapy, and combination regimens designed to eradicate the CSC population.

Guest Editors

Dr. Simone Franco

Department of Precision Medicine in Medical, Surgical, and Critical Areas (Me.Pre.C.C.), University of Palermo, 90127 Palermo, Italy

Dr. Alessandro Giammona

1. Istituto di Bioimmagini e Sistemi Biologici Complessi (IBSBC)– National Research Council (CNR), 20054 Segrate, Milan, Italy
2. NBFC, National Biodiversity Future Center, 90133 Palermo, Italy

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
life@mdpi.com

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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.

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

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