

Special Issue

Cancer Stem Cell and Differentiation 2023

Message from the Guest Editor

Cancer stem cells are defined as “cancer root cells” with the ability to self-renew, dividing to give rise to malignant stem cells as well as to produce the phenotypically heterogeneous, differentiated tumor cells that form the masses of tumors. The percentage of CSCs in total tumor mass is very low (0.05–3%), but because of their following unique cellular properties CSCs are considered the ultimate obstacle to cancer therapy. In this context, CSCs selectively targeting imaging probes and small-molecule therapies will be described as appealing approaches, and recent positive preclinical results validate their potential. This emerging interdisciplinary field includes the discovery and development of CSCs targeting molecule-specific mechanisms. Therefore, targeted therapies and diagnostics have generated CSCs as a unique choice of ultimate cancer treatment by targeting tumor-specific features.

Guest Editor

Prof. Dr. Jiyoun Han

Laboratory of Stem Cell Research & Biotechnology, Department of Biomedical and Chemical Sciences, College of Life Sciences and Engineering, Hyeongsung University, Hwaseong 18330, Republic of Korea

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