Special Issue

Genetic, Epigenetic, and Transcriptional Control of Cancer Stem Cell

Message from the Guest Editors

Tumor heterogeneity is a key characteristic of cancer. Cancer stem cells are a small population of cancer cells that have infinite proliferative potential and tumor-initiating properties. Cancer stem cells play a critical role in the initiation, recurrence/metastasis and therapeutic resistance of cancer. Therefore, a deeper understanding of cancer stem cell is urgently needed for better prevention and treatment of cancer. Cancer stem cells can be regulated at genomic, epigenomic and transcriptional levels. Mutations of driver genes are key to the formation of cancer stem cells. Epigenetic changes, such as DNA methylation and histone modification, also play important roles in cancer stem cell formation and drug resistance. In addition, transcription factors and their cofactors are critical for the maintenance and specification of cancer stem cells. In the past 20 years, genomics, epigenomics and transcriptomics studies have revolutionized our understanding of cancer stem cell, however, many questions remain largely elusive in both the mechanisms of cancer stem cell regulation and clinical application of targeting cancer stem cell.

Guest Editors

Prof. Dr. Haiquan Lu
Prof. Dr. Lulu Wang
Dr. Yongkang Yang

Deadline for manuscript submissions

closed (31 March 2023)

Cells

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed

mdpi.com/si/139318

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

mdpi.com/journal/cells

Cells

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed

mdpi.com/journal/cells

About the Journal

Message from the Editorial Board

Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

Editors-in-Chief

Dr. Alexander E. Kalyuzhny
Dental Basic Sciences, University of Minnesota, 308 Harvard St. SE, Minneapolis, MN 55455, USA

Prof. Dr. Cord Brakebusch
Biotech Research & Innovation Centre, The University of Copenhagen, Copenhagen, Denmark

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Cell Biology) / CiteScore - Q1 (General Biochemistry, Genetics and Molecular Biology)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).