Special Issue

Roles of RUNX Family in Cancer

Message from the Guest Editors

RUNX genes are frequently deregulated in various human cancers, indicating their prominent roles in cancer pathogenesis. RUNX1 is best known as a hematopoietic stem cell factor with essential roles in lineage specification. RUNX2 is a master regulator of osteogenesis that is critical for the differentiation of mesenchymal stem cells. Increased RUNX2 expression is strongly associated with osteosarcoma, breast cancer, and bone metastasis. RUNX3 is frequently silenced by epigenetic modification in multiple cancer types, including bladder, lung, and gastric cancers. It has been proposed that RUNX3 silencing is an early event during the development of these cancers. Mechanistically, RUNX3 has been shown to restrain proliferation through interaction with major oncogenic signaling pathways. However, elevated RUNX3 expression has been observed in various metastatic cancers, suggesting pro-metastatic involvement. Growing evidence suggests that the roles of RUNX genes in carcinogenesis are cell type-specific and context-dependent. A deeper understanding of the RUNX genes may inform clinical decisions during diagnosis and therapy of their related cancers.

Guest Editors

Prof. Dr. Suk-chul Bae

Institute for Tumor Research, College of Medicine, Chungbuk National University, Cheongju 28644, Korea

Prof. Dr. Yoshiaki Ito

Cancer Science Institute of Singapore, Center for Translational Medicine, National University of Singapore, Singapore

Deadline for manuscript submissions

closed (15 January 2023)

Cells

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed

mdpi.com/si/103508

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).