

## Special Issue

# How Does Gene Regulation Affect Cancer Development?

### Message from the Guest Editors

The mutations of certain genes greatly contribute to oncogenesis and cancer development. Some mutations occur in the open reading frame of genes, while other mutations occur in the regulatory domains of genes. The former type of mutations are cancer-specific and, therefore, difficult to target using anticancer drug developments. Meanwhile, the latter types of mutations lead to either the upregulation or downregulation of certain genes and, therefore, might provide some way to control the expression of these genes by manipulating some cellular regulatory mechanisms, such as transcription factors, non-coding RNAs, histones, and others. We recently proposed that the suppression of SP1, MYC, and HIF1A altogether could be a good target for anticancer drug development because cancers often use these transcription factors to their advantage. This Special Issue aims to further examine cellular gene networks that are utilized by cancers for their development, and which could be potential targets of anticancer drug development.

### Guest Editors

Prof. Dr. Ru Chih C. Huang

1. Department of Biology, Zanvyl Krieger School of Arts and Sciences, Johns Hopkins University, Baltimore, MD 21218-2685, USA
2. National Academy of Inventors, Tampa, FL 33612, USA
3. Academia Sinica, 128 Academia Road, Section 2, Nankang, Taipei 11529, Taiwan

Dr. Kotohiko Kimura

Department of Biology, Johns Hopkins University, 3400 N. Charles Street, Baltimore, MD 21218-2685, USA

### Deadline for manuscript submissions

31 December 2025



## Cells

an Open Access Journal  
by MDPI

Impact Factor 5.2  
CiteScore 10.5  
Indexed in PubMed



[mdpi.com/si/229990](https://mdpi.com/si/229990)

*Cells*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[cells@mdpi.com](mailto:cells@mdpi.com)

[mdpi.com/journal/](https://mdpi.com/journal/cells)

[cells](https://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](https://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, CAPus / 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).