

## Special Issue

# Advances in Cellular Mechanisms and Molecular Targets in Breast Cancer Research

### Message from the Guest Editors

Breast cancer remains the most common malignancy in women worldwide. Recent advances in multi-omics, single-cell and spatial technologies, and AI have uncovered distinctive tumor subtypes and clarified the complexity of the tumor microenvironment. Despite progress in targeted therapies, major challenges—including therapeutic resistance, immune evasion, and limited options for aggressive subtypes such as TNBC—continue to drive fundamental research needs. This Special Issue welcomes studies focused on molecular mechanisms, cellular dynamics, and innovative technological approaches that advance our understanding of breast cancer biology. We particularly encourage work examining tumor heterogeneity, cancer stem cell properties, cell plasticity, and key signaling pathways regulating growth, invasion, and resistance. Submissions exploring next-generation biomarkers, regulatory non-coding RNAs, and immune landscape features that shape tumor progression are also of high interest.

---

### Guest Editors

Dr. Rahul Sanawar

1. Department of Medicine (Oncology), Montefiore Einstein Comprehensive Cancer Center, Albert Einstein College of Medicine, Bronx, NY, USA

2. Department of Developmental & Molecular Biology, Montefiore Einstein Comprehensive Cancer Center, Albert Einstein College of Medicine, Bronx, NY, USA

Dr. Naoshad Muhammad

Department of Radiation Oncology, Washington University School of Medicine, St. Louis, MO 63130, USA

Dr. Satheesh Kumar Sengodan

National Cancer Institute at Frederick, Frederick, MD, USA

---

### Deadline for manuscript submissions

30 November 2026



## Cells

---

an Open Access Journal  
by MDPI

---

Impact Factor 5.2  
CiteScore 10.5  
Indexed in PubMed



[mdpi.com/si/258367](https://mdpi.com/si/258367)

*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/  
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, 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 15.5 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).