

## Special Issue

# Gene Editing Therapies for Hereditary Diseases

### Message from the Guest Editor

The development of genome editing technologies has improved the prospect of treatments for several hereditary diseases. For most of them, high-precision DNA correction will be feasible. Indeed, techniques such as base editing permit us to correct the four most common single-base substitutions, while prime editing can install any substitutions, insertions, and/or deletions of dozens of base pairs. Nuclease-dependent editing approaches involving double-strand DNA breaks (DSBs) often result in a high percentage of uncontrolled editing outcomes. Base editing and prime editing techniques have higher rates of efficiency with fewer byproducts, even in slowly dividing or non-dividing cells, which are most of the cells in adult animals. Thus, these techniques are effective agents for in vivo therapeutic genome editing, not only in animal models but also in humans. I am thus proposing the publication of a Special Issue of *Cells* to present the fantastic progress in these technologies and their rapid use for the development of genetically improved plants and real personalized medical treatments. Yours faithfully,

### Guest Editor

Prof. Dr. Jacques P. Tremblay

CHU de Québec Research Center, Laval University, Québec, QC, Canada

### Deadline for manuscript submissions

25 March 2026



## Cells

an Open Access Journal  
by MDPI

Impact Factor 5.2  
CiteScore 10.5  
Indexed in PubMed



[mdpi.com/si/227613](https://mdpi.com/si/227613)

*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](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).