

Special Issue

Genome Editing Systems, Methods, Techniques and Their Application Series 2

Message from the Guest Editor

With the rapid evolution of site-specific nuclease systems, such as CRISPR-Cas9 and TALEN, genome editing technology has led to a big breakthrough in the field of life science. Precision gene engineering has been achieved in various cells, animals, plants, and microorganisms, and the derivative technologies have been developed and applied in various ways, including transcriptional control, epigenome editing, chromosome visualization, genome-wide screening, and DNA barcoding. This Special Issue covers original research and review papers involved in this type of genome editing and related technologies. A wide range of research topics is acceptable, such as the basic development of genome editing tools and methods, functional genomics studies, and biomedical applications using CRISPR-Cas9. **Keywords**

- Genome editing
- Gene knockout
- Gene knock-in
- Transcription activator-like effector nuclease (TALEN)
- Zinc-finger nuclease (ZFN)
- Epigenome editing
- CRISPR-Cas9

Guest Editor

Dr. Tetsushi Sakuma

Division of Integrated Sciences for Life, Graduate School of Integrated Sciences for Life, Hiroshima University, Hiroshima 739-8526, Japan

Deadline for manuscript submissions

closed (31 March 2022)



Cells

an Open Access Journal
by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed



mdpi.com/si/51433

Cells
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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).