

Special Issue

Epigenetic Control and Gene Regulatory Mechanisms in Development and Disease

Message from the Guest Editor

Epigenetics refer to a wide range of regulatory mechanisms that control gene expression to determine cellular morphology and function. Such mechanisms include multi-step regulation at the level of gene transcription, post-transcription, protein translation, and post-translational control. Genetic mutations or epigenetic deregulation, in part influenced by environmental factors, may lead to impaired development and in many cases cause human diseases. This Special Issue aims to provide an up to date platform for original research and review papers that cover subjects related to different forms of epigenetic mechanisms, including DNA, RNA, and histone modifications, regulatory RNA molecules, alternative splicing and related factors, three-dimensional chromatin structure, enhancer–promoter interactions, nucleosome remodeling, as well as the role of epigenetic factors (readers, writers, and erasers). Epigenetic mechanisms are important in development and disease and relevant subjects are welcome for submission, along with studies related to associated model systems.

Guest Editor

Prof. Dr. Mojgan Rastegar

Department of Biochemistry and Medical Genetics, Rady Faculty of Health Sciences, Max Rady College of Medicine, University of Manitoba, Winnipeg, MB R3E 0J9, Canada

Deadline for manuscript submissions

closed (31 December 2023)



Cells

an Open Access Journal
by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed



mdpi.com/si/165556

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).