



cells



an Open Access Journal by MDPI

Transcriptional Regulatory Mechanisms in Health and Disease

Guest Editor:

Prof. Dr. Mojgan Rastegar

Department of Biochemistry and
Medical Genetics, Rady Faculty of
Health Sciences, University of
Manitoba, Winnipeg, MB, Canada

Deadline for manuscript
submissions:

closed (31 December 2022)

Message from the Guest Editor

Transcriptional regulation includes certain epigenetic mechanisms involving methylation and modification of DNA and RNA molecules, histone PTMs, action of non-coding RNAs, chromatin remodeling, nucleosome positioning, as well as interaction of *trans*-acting factors with *cis*-regulatory elements.

Transcriptional control is important for the proper process of embryonic development, organogenesis, and stem cell differentiation, with key roles in keeping our body in a health state. Accordingly, mis-regulation of transcriptional gene regulation leads to human disease.

The aim of this Special Issue is to serve as an overview platform for the latest discoveries in transcriptional gene regulation in development and disease, covering both original research and review articles. Post-transcriptional studies that involve the mechanistic basis of transcript turnover and/or transcript stability are also welcome. Studies that connect cellular function and signaling molecules to transcriptional gene regulation in development, health, and disease, as well as studies that report on the generation of novel model systems for transcriptional reporter assays are also welcome for submission.



mdpi.com/si/98071

Special Issue



cells



an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Alexander E. Kalyuzhny

Neuroscience, UMN Twin Cities,
6-145 Jackson Hall, 321 Church St
SE, Minneapolis, MN 55455, USA

Prof. Dr. Cord Brakebusch

Biotech Research & Innovation
Centre, The University of
Copenhagen, Copenhagen,
Denmark

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.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

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*)

Contact Us

Cells Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/cells
cells@mdpi.com
[X@Cells_MDPI](#)