

# Topical Collection

## Magnetic Fields and Cells

### Message from the Collection Editors

Knowledge of interaction mechanisms between living cells and MFs opens avenues for new research and MF applications in the following areas: magnetobiology, magnetogenetics, neuroscience, cell therapy, cell reprogramming, transcriptional responses to MFs, magnetic cryoconservation of cells and organs, cell magnetophoresis, membrane magnetoporation, biotechnologies using MFs, cell levitation and tissue engineering with MFs, magnetic carriers, magnetic nanorobots for applications in medicine, etc.

Therefore, precise knowledge of the specific cellular and molecular mechanisms behind magnetic field–cell interactions is a top priority for the scientific community.

In this Special Issue of *Cells*, we invite both review papers discussing the current state of the art regarding the impact of magnetic fields on cells as well as research articles reporting new effects of MFs on the cell machinery, including reports describing novel technologies relevant to the study of biomagnetic effects at the cellular level.

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### Collection Editors

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## Cells

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## 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.

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### Editors-in-Chief

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### 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).