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Magnetic Fields and Cells

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Message from the Collection Editors

Dear Colleagues,

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.

Dr. Vitalii Zablotskii
Dr. Xin Zhang
Guest Editors

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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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