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# Cell Therapy & Engineering Connect

A Journal Specialized in  
**Cell-Based Therapy & Cell Engineering**

**Editor-in-Chief**

Ken-ichiro Kamei, PhD



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## Subject Categories

Molecular Biology

Tissue Engineering and Regenerative Medicine

Synthetic Biology

## Target Audience

Cell Therapy & Engineering Connect is tailored for researchers, clinicians, scientists, and engineers dedicated to advancing the field of cell engineering through innovative research in genetic engineering, stem cell technologies, cell-based therapies, tissue engineering, immunoengineering, and neuroengineering for applications in healthcare and biotechnology.



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Editor-in-Chief

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## Message from EiC

As the Editor-in-Chief of Cell Therapy & Engineering Connect, I am excited to launch this platform dedicated to advancing cell engineering research. We invite researchers to share their latest findings and insights, fostering collaboration and innovation in this dynamic field.

## Aims and Scope

The *Cell Therapy & Engineering Connect* is a peer-reviewed, open-access journal, that aims to publish cutting-edge research and innovative approaches in the rapidly evolving field of cell engineering. This journal serves as a platform for advancing knowledge in the manipulation, design, and application of cells for therapeutic and diagnostic purposes.

## Key Topics

The scope of the journal includes, but is not limited to, the following key areas:


- **Genetic Engineering and Synthetic Biology:** Investigating techniques such as genome editing, CRISPR technology, and synthetic biology for disease modeling, gene therapy, metabolic engineering, and the development of novel cell-based systems.
- **Stem Cell Engineering:** Covering advancements in stem cell research, including the development of organoids, disease models, and organs-on-a-chip for drug discovery, personalized medicine, and regenerative therapies.
- **Cell-based Therapy:** Exploring cell-based therapeutic approaches like CAR-T cell therapy, immune cell modulation, and the use of engineered cells for the production of therapeutic agents.
- **Tissue Engineering and Regenerative Medicine:** Focusing on the creation and regeneration of tissues and organs through bioengineering methods, including scaffold design, bioprinting, and stem cell integration.
- **Immunoengineering:** Examining the interface between immune cells and engineered systems, including innovations in cancer immunotherapy, vaccine development, and autoimmune disease treatment.
- **Neuroengineering:** Investigating the engineering of neural cells and tissues to develop treatments for neurodegenerative diseases, brain injury, and other neurological conditions.
- **Cellular Mechanobiology:** Designing and manipulating the physical, chemical, and biological conditions surrounding cells to control their behavior, growth, and function for applications in tissue engineering, regenerative medicine, and disease modeling.
- **Biomanufacturing:** Producing engineered cells for practical applications and/or producing therapeutic agents (DNA/RNA, proteins, exosomes, and so on) by using engineered cells.
- **AI in Cell Engineering:** Using AI in cell engineering to optimize gene editing, predict cellular behaviors, analyze large-scale biological data, automate cell culture processes, and enhance the precision of techniques like CRISPR by identifying target genes more efficiently.

By providing a multidisciplinary platform, ***Cell Therapy & Engineering Connect*** welcomes original research articles, reviews, and case studies related to cell engineering.



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