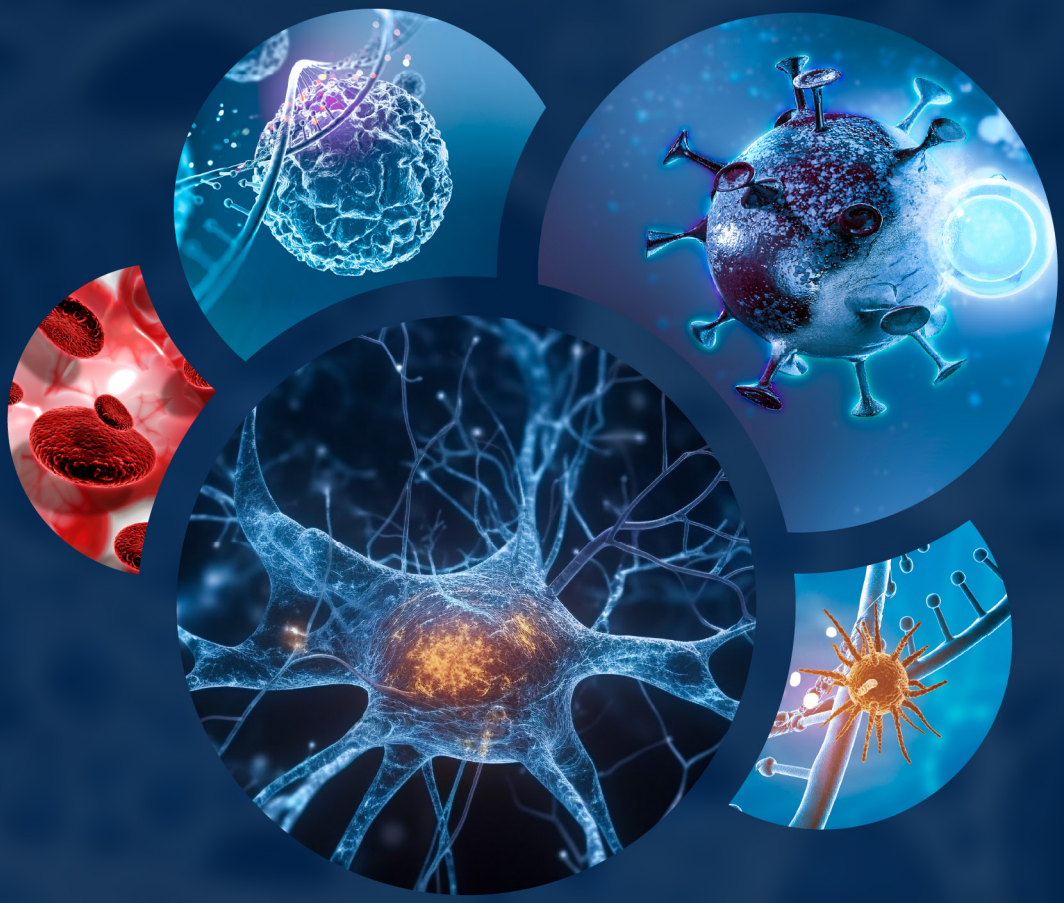

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Cell Therapy & Engineering Connect

A Journal Specialized in
Cell-Based Therapy & Cell Engineering

Editor-in-Chief
Ken-ichiro Kamei, PhD

OPEN ACCESS PEER-REVIEWED JOURNAL

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Volume: 1, 2025

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.

Ken-ichiro Kamei

Editor-in-Chief

New York University Abu Dhabi (NYUAD)

Abu Dhabi, UAE

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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