



an Open Access Journal by MDPI

Human Pluripotent Stem Cell-Based Disease Modeling

Guest Editors:

Dr. Yohan Oh

Department of Biomedical
Science, Graduate School of
Biomedical Science and
Engineering, Hanyang University,
Seoul 04763, Republic of Korea

Dr. Yong Jun Kim

Department of Pathology,
College of Medicine, Kyung Hee
University, Seoul, Korea

Dr. Dae-Sung Kim

Department of Biotechnology,
College of Life Science &
Biotechnology, Korea University,
Seoul, Korea

Deadline for manuscript
submissions:

closed (31 December 2021)

Message from the Guest Editors

Human pluripotent stem cells (hPSCs), including embryonic stem or induced pluripotent stem cells (hESCs/hiPSCs), differentiated into specific types of cells have been accepted as a promising model for studying human disease and as potential cell sources for transplantation. Particularly, disease-specific hiPSCs provide us with an exceptional opportunity to recapitulate human disease phenotypes in vitro, thereby enabling disease investigation and drug development; although, there are several challenges which need to be addressed.

In this Special Issue, we respectfully invite original research (articles, short communications, and reviews) addressing the following topics:

- Development of hPSC-based disease models;
- Improvement of hPSC-based disease models;
- Application of hPSC-based disease models;
- Generation of hPSC-derived human cells or organoids;
- Development of hPSC-based cell therapies;
- Optimization of hPSC-based cell therapies.

We hope that this Special Issue will highlight the power of stem-cell-based approaches for asking fundamental disease questions with regard to human cells.



mdpi.com/si/51608

Special Issue



an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Jukka Finne

Research Programme in
Molecular and Integrative
Biosciences, Faculty of Biological
and Environmental Sciences,
University of Helsinki, P.O. Box
56, FI-00014 Helsinki, Finland

Prof. Dr. Andrés Moya

Integrative Systems Biology
Institute, University of Valencia
and CSIC, 46980 Valencia, Spain

Message from the Editorial Board

A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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, PMC, PubAg, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Biology) / CiteScore - Q1 (General Agricultural and Biological Sciences)

Contact Us

Biology Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/biology
biology@mdpi.com
[X@Biology_MDPI](https://twitter.com/Biology_MDPI)