Special Issue

Cellular Reprogramming in Translational Research and Medicine

Message from the Guest Editor

Cellular reprogramming, including stem/progenitor cells and other functionally defined therapeutic cells, hold tremendous promise for patients with organ failure, as well as for diseases and disorders that cannot be cured by currently available medications.

During the past decade, substantial advances have been made in differentiating human pluripotent stem cells, including induced pluripotent stem cells (iPSCs) and embryonic stem cells (ESCs), into specific lineage cells; however, these approaches raise the potential risk of tumorigenesis and ethical concerns, thus restricting their clinical applications.

Accordingly, trans-differentiation of a functional cell type into another lineage, bypassing the pluripotent stage, can provide powerful benefits for clinical use in a tissue- and patient-specific manner.

The aim of this Special Issue is to publish original research articles in novel reprogramming technologies, understanding of the underlying mechanisms governing cellular reprogramming and its potential for translational medicine.

Guest Editor

Prof. Dr. Seungkwon You

Laboratory of Cell Function Regulation, Department of Biotechnology, College of Life Sciences and Biotechnology, Korea University, Seoul 02841, Korea

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Cells
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
cells@mdpi.com

mdpi.com/journal/cells

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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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