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Stem Cells in Organoid Technology

Guest Editor:

Dr. Min Young Lee

Department of Molecular
Physiology, College of Pharmacy,
Kyungpook National University,
Daegu 41566, Republic of Korea

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Message from the Guest Editor

Pluripotent stem cells, including embryonic stem cells, and induced pluripotent stem cells, which can differentiate into any cell in the body. Adult stem cells are multipotent, which means they can only change into some cells in the body, not any cell. Their unique characteristics to differentiate into other cell types (pluripotency) allow us to use stem cells as valuable tools for research and therapeutic applications. During the past few decades, stem cell differentiation technology has made remarkable progress. Additionally, organoid technology has recently been developed. Organoids are three-dimensional cell structures grown in vitro from stem cells, primarily isolated from biopsies or pluripotent stem cells, which recapitulate key features of native organs from a histological and functional perspective. Organoids can be widely utilized for various purposes, such as organ development, disease modeling, drug development, regenerative medicine, etc.

This Issue will focus on the development of innovative technologies in the generation of pluripotent stem-cell-derived organoids and their application in disease modeling and regenerative medicine.



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Special Issue



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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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Cells Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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