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Advances in iPSC-Based Disease Modeling: From Two Dimensional Monolayers to Organoids

Guest Editors:

Prof. Dr. Giovanni Cuda
Department of Experimental and Clinical Medicine, Magna Græcia University, 88100 Catanzaro, Italy

Dr. Elvira Immacolata Parrotta
Department of Medical and Surgical Sciences, Magna Græcia Univeristy, 88100 Catanzaro, Italy

Deadline for manuscript submissions:
closed (30 March 2023)

Message from the Guest Editors

Understanding the mechanisms underlying human diseases is important for the development of effective therapeutic strategies. Progress made in stem cell biology with the discovery of induced pluripotent stem cell (iPSC) technology offers unprecedented opportunities to model human diseases. Disease-relevant cell types differentiated from iPSCs in two-dimensional (2D) monolayers have proven to be an extraordinary tool for uncovering diseases' underlying molecular mechanisms. Recent advances in this direction have led to the development of iPSC-derived 3D organoids that can more accurately recapitulate organ architecture, serving as a biological platform for investigating organs and tissues' developmental processes under both normal and pathological conditions and paving the way for disease modeling, therapeutics, and regenerative medicine.

We invite you to contribute original research articles, reviews, or shorter perspective articles on all aspects related to Disease Modeling with Human Induced Pluripotent Stem Cells. Articles describing mechanistic, functional, and cellular aspects of disease models based on iPSCs and iPSC-derived organoids are highly welcome.

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Prof. Dr. Cord Brakebusch
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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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Contact Us

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

Tel: +41 61 683 77 34
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mdpi.com/journal/cells
cells@mdpi.com
𝕏@Cells_MDPI