



cells



an Open Access Journal by MDPI

Signaling Pathways in Cell Generation and Reprogramming

Collection Editor:

Dr. Kunimasa Ohta

Faculty of Arts and Science,
Kyushu University, Fukuoka,
Japan

Message from the Collection Editor

In this Special Issue, the focus will be on the creation of multipotent cells using extrinsic materials. To date, generated using several different kinds of methods, including forced expression of specific transcription factors, incorporating ribosomes into fibroblasts, infection of leprosy bacilli into adult Schwann cells, and applying a cocktail of small-molecule compounds or cell-penetrating peptides to fibroblasts. Though these cells have both advantages or disadvantages regarding their use in either basic research or clinical application, we realize that even terminally differentiated cells possess the potential to be reprogrammed by extrinsic materials. Therefore, precise knowledge of the specific cellular and molecular signaling behind such reprogramming is a priority of the scientific community.

The aim of this Special Issue is to provide an overview of the signaling pathways and molecules involved in the process of cell generation and reprogramming by extrinsic materials.



mdpi.com/si/51763

Topical Collection



cells



an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Alexander E. Kalyuzhny

Neuroscience, UMN Twin Cities,
6-145 Jackson Hall, 321 Church St
SE, Minneapolis, MN 55455, USA

Prof. Dr. Cord Brakebusch

Biotech Research & Innovation
Centre, The University of
Copenhagen, Copenhagen,
Denmark

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.

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](#), [MEDLINE](#), [PMC](#), [CAPus / SciFinder](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Cell Biology*) / CiteScore - Q1 (*General Biochemistry, Genetics and Molecular Biology*)

Contact Us

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

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

mdpi.com/journal/cells
cells@mdpi.com
[X@Cells_MDPI](https://twitter.com/Cells_MDPI)