



cells



an Open Access Journal by MDPI

Mechanism of Cardiac and Neuronal Cell Fate Control

Guest Editors:

Dr. Jidong Fu

Department of Physiology and Cell Biology, College of Medicine, The Ohio State University, Columbus, OH, USA

Dr. Kyle Fink

Stem Cell Program, Institute for Regenerative Cures, MIND Institute, Neurology Department, School of Medicine, University of California, Davis, CA, USA

Deadline for manuscript submissions:

closed (15 November 2021)

Message from the Guest Editors

In the last decade, the molecular mechanism of cell fate control has been being investigated with great achievements. Those advanced knowledges, learnt from the development of embryo, have been applied to develop promising therapeutic approaches for regenerative medicine in different diseases, including heart and neurological diseases. This Special Issue explores the new discoveries of cardiac and neuronal cell fate control, and state-of-the-art research models and applications of mechanisms of cell fate control for cardiac and neurological diseases. Potential topics of reviews and research articles include but are not limited to the following:

Mechanism of cardiac and neuronal cell fate control during embryo development

Cardiac and neuronal differentiation of stem cells

Mechanism of cardiac and neuronal regeneration

Epigenetic reprogramming of cell fates

Cell fate transdifferentiation in diseases

Extracellular factors regulate cell fates and regeneration

Signalling pathways in regulation of cell fate control

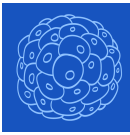
In vivo and *in vitro* models of investigating cell fate control

Therapeutic applications of cardiac and neuronal regenerative medicine through regulating cell fate



mdpi.com/si/66389

Special Issue



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](#), [CAPlus / SciFinder](#), and [other databases](#).

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

Contact Us

Cells Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/cells
cells@mdpi.com
[X@Cells_MDPI](#)