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Mechanism of Cardiac and Neuronal Cell Fate Control

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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

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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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