

Special Issue

Elucidation of Functional Reconstruction in Brain Injury Model via Cell Transplants and Rehabilitation Exercises

Message from the Guest Editor

Cell therapy for brain disorders has various meanings and offers a variety of potentials. Stem cells exert therapeutic benefits either endogenously or following transplantation in injured organs, i.e., the brain. The transplantation of exogenous cells, which include various stem/progenitor cells and differentiated cells, such as neurons with a specific phenotype, astrocytes, and oligodendrocytes, is readily referred to as a form of cell therapy.

Furthermore, exercise ameliorates physical and cognitive impairment of patients with brain disorders, by enhancing unmasking root, enabling axonal sprouting, and, eventually, reorganization of the neural system of the injured brain. Key to neuroplasticity is brain remodeling towards recapitulation of a neurodevelopmental microenvironment, which is conducive to stem cell proliferation and differentiation.

The novel concepts in this Special Issue embody and elucidate the damaged brain functional reconstruction mechanism via cell transplants and rehabilitation exercises, which I believe has direct clinical application to various diseases, including brain disorders.

Guest Editor

Dr. Naoki Tajiri

Department of Neurophysiology & Brain Science, Graduate School of Medical Sciences & Medical School, Nagoya City University 1 Kawasumi, Mizuho-cho, Mizuho-ku, Nagoya-city, Aichi 467-8601, Japan

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
cells@mdpi.com

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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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