Special Issue

Regenerative Medicine: The Mechanism and Role of Neuroglia after Spinal Cord Injury

Message from the Guest Editors

After damage, neuronal production can be re-established to restore specific functions in the central nervous system (CNS). In adult neurogenesis, neurons are generated and integrated into the circuits system in the vertebrate brain. Adult neurogenesis not only supports learning and memory but also regenerates neurons lost to disease or injury in some species. Therefore, understanding the mechanism(s) and role of neuroglia involved in neuronal regeneration can bring fundamental insight into cell plasticity, reprogramming and stem cell fate in the physiological condition, thus providing a context for the therapeutic repair of lesions and reversal of degenerative events.

The purpose of this Special Issue is to focus on unraveling (1) the different roles of the neuroglia, which might have different roles and mechanisms involved in reprogram process after spinal cord injury (SCI); (2) a better understanding of mechanisms underlying neurogenesis and neuron integration in order to develop therapeutic strategies at the cellular level. We believe that this Special Issue can provide new insight into the current understanding of neurogenesis and

Guest Editors

Dr. Chih-Wei Zeng

Department of Molecular Biology, UT Southwestern Medical Center, 6000 Harry Hines Blvd, Dallas, TX 75390, USA

Dr. Jan Kaslin

Australian Regenerative Medicine Institute, Monash University, Clayton, VIC, Australia

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

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About the Journal

Message from the Editor-in-Chief

Neuroglia covers the critically important functions of the diverse range of cells within the nervous system that are collectively called glia. Our journal focuses on the development, function, and pathology of glia in the central and peripheral nervous systems, as well as how these cells can be used therapeutically to repair injuries and diseases of the nervous system. The journal welcomes research using the latest in vitro and in vivo animal and human research, with a view to its translation into potential human therapies.

Editor-in-Chief

Prof. Dr. Jessica Filosa
Department of Physiology, Augusta University, Augusta, GA 30912, USA

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