

Special Issue

Novel Mechanisms and Strategies for Neural Repair

Message from the Guest Editor

Loss of neural cells and disconnection of axons frequently cause persistent functional deficits with a very limited recovery after nervous system injury or in neurological disorders. Our understanding of the molecular and cellular mechanisms for these diseases is incomplete and the current medical treatments to enhance recovery of lost neurological functions are extremely restricted. We invite investigators to contribute original research studies and review articles that illuminate the molecular and cellular mechanisms underlying neural cell damage and loss, neurodegeneration, neuronal and axonal regeneration failure, demyelination, and associated functional deficits. We also invite articles that highlight recent advances in development of effective strategies for promoting neural repair, neural cell survival, neural regeneration, synaptic reconnection, neuroplasticity, and functional recovery. The overall goals of this Special Issue are to further understand the molecular and cellular responses of injured neural cells (neurons and glia) and to develop highly effective approaches for repairing central and peripheral nervous systems and for recovering neural functions.

Guest Editor

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Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Brain Sciences* (ISSN 2076-3425). *Brain Sciences* is an open access, peer-reviewed scientific journal that publishes original articles, critical reviews, research notes, and short communications on neuroscience. The scientific community and the general public can access the content free of charge as soon as it is published.

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