Adult Neurogenesis and Neurological Disorders

Neurogenesis is the process of generating new neurons from neural stem and progenitor cells. It was once believed that this process was restricted to a limited period during development. However, the discovery that new neurons are continuously added into discrete brain regions throughout life showcases the exquisite capability for plasticity as well as regenerative capacity of the mature brain.

There has been increasing interest directed towards understanding the role that neurogenesis plays in aging as well as in the development of pathological conditions, such as stroke, epilepsy, neurodegenerative disorders, and neuropsychiatric diseases. Whether the changes in neurogenesis that occurs represent adaptive responses, or contribute somehow in the pathophysiology of these conditions still remains unclear.

This Special Issue aims to highlight recent advances exploring the link between failing neurogenesis and the development of various neurological and neuropsychiatric conditions. Discussion will also be given to the potential therapeutic application of neural stem cells and adult neurogenesis strategies for the treatment of brain disorders. Both original research articles and reviews are welcomed.

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