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Advances in Neurogenesis: Volume 2

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Message from the Guest Editor

The adult brain displays different forms of neural plasticity, ranging from neuronal synapto-dendritic rearrangements to the generation of novel neuronal and glial cells from neural stem cells (NSCs), processes known as adult neuro- and gliogenesis, respectively.

Postnatal neuro- and glioplasticity are largely driven by the transduction of environmental stimuli into essential neuroadaptations. Neuro- and glioplastic maladaptations often result in the manifestation of pathological traits, from which depressive behavior is a paradigmatic example. Given the involvement of adult neurogenesis in such complex behaviors, it has become plausible to anticipate that its disruption could impact the neuronal circuitry and, ultimately, be implicated in the development of psychiatric and neurodegenerative disorders.

Understanding the role of novel genes and cytogetic regulators and better dissecting their impact throughout developmental periods and at different behavioral domains is of paramount importance to increase our current comprehension of this topic.



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Special Issue



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