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# Novel Approaches to the Regeneration and Repair of the Nervous System: Neuronal Reprogramming

Guest Editor:

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## **Message from the Guest Editor**

While adult neurogenesis has been observed in specific brain regions, the potential for generating new neurons in the adult human central nervous system is severely constrained. Despite significant advances in medicine, the task of replenishing lost neurons following central nervous system injuries and neurodegenerative diseases remains highly challenging. A promising avenue to address this challenge is in situ neuronal reprogramming, an emerging approach that involves converting somatic cells into induced neurons capable of functioning like existing neurons. Neuronal reprogramming involves various obstacles, including cell death, low reprogramming efficiency, difficulties with off-target gene delivery, incomplete reprogramming, and the unintended generation of undesirable cell types. Effectively overcoming these critical hurdles is essential to pave the way for a future where neuronal reprogramming has transformed the landscape of medicine and human health. This Special Issue aims to gather original research articles and review papers specifically focused on neuronal reprogramming, both in vivo and in vitro, with a particular emphasis on addressing the aforementioned obstacles.







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