

CNS & Neurological Disorders - Drug Targets

Proposal for Thematic Issue

Tentative Outline

Title: Drug Interventions/Therapies for Neural Injury

Editor (s): Kun Xiong

1. Department of Neurosurgery, the 904th hospital of PLA, Wuxi, Jiangsu, China

xiongkun2001@163.com

Aim and Scope

Our selected topic “Drug Interventions/Therapeutics for Neural Injury” aims to provide an international forum for the neural injury repair researchers to report their “bench to bedside” research into clinical strategies.

Both central nervous system (CNS) and peripheral nervous system (PNS) injury could lead to serious pathophysiological progresses and clinical symptoms, such as neuronal death, declined biological function, and cognitive impairment of brain or the loss of clinical function of target organs. Eventually, CNS and PNS injury will seriously impair the quality of life and prognosis of the patients. At this moment, drug interventions/treatments are still recognized as the one of most effective strategies to antagonize the injury in the early and middle stages of nervous injury. Therefore, the scope if this topic includes limiting neural injuries by pharmacological intervention, in either experimental models or in clinic, as well as insights on neuroprotective agents’ mechanisms. The neuropharmacology studies on molecular, cellular and biomedical aspects of the nervous system, and explores the neuroprotection mechanisms such as inhibiting programmed cell death or neuroplasticity.

Based on the different academic backgrounds of the researchers, each of the studies mentioned above can be considered as an independent research work field. Besides, the studies mentioned above can be integrated into one whole, which could fully illustrate the effects of drug interventions on the same neurological disease. Thus, based on the

tendency and urgency of this area, we believe that this theme could attract the attentions of researchers in the relevant research fields, including drug developers, neurobiologists, and clinical neurologists. Our special issue will also give some advanced views on the development of this field, especially providing experimental/theoretical supports for neuron survival and functional maintenance, as well as reducing the difficulty of neural regeneration and functional rehabilitation in the neurological patients.

This topic is devoted to promote publication of original findings and provide novel insights. Here we have articles of scientific findings and also reviews, submitted by investigators at renowned medical and research institutions worldwide.

Keywords:

central nervous system (CNS), peripheral nervous system (PNS), neuropharmacology, neuroplasticity, drug interventions, neuron survival.

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