

Tentative Outline

Special/Thematic Issue for the journal "CNS & Neurological Disorders Drug Targets"

Tentative Title: Understanding the Contributors to Neurodegeneration following Neurotrauma

Guest Editor: Brandon Lucke-Wold MD, PhD, MCTS

Scope of the Thematic Issue:

Recent evidence has shown that neurotrauma can contribute to a host of behavioral and degenerative conditions. These range from depression and anxiety to chronic traumatic encephalopathy and early onset Parkinson's disease. Our understanding on how neurotrauma is linked to these long-term disease states is still in its infancy. This special issue will focus on the mechanisms that can contribute to neurodegeneration and psychiatric conditions following neurotrauma. Clinical, pre-clinical, and reviews are appreciated with special emphasis on secondary mechanisms such as endoplasmic reticulum stress, oxidative stress, mitochondrial dysfunction, neuroinflammation, and gliosis. Focus should be placed on how these secondary mechanisms are linked to the process of neurodegeneration and what behavioral manifestations can be appreciated. The scope is large and can include diagnostic considerations, treatment solutions, and investigational avenues warranting further investigation.

Keywords: Neurotrauma, neurodegeneration, oxidative stress, ER stress, neuroinflammation, behavioral disturbance

Sub-topics:

The sub-topics to be covered within the issue should be provided:

- Types of secondary neurodegeneration following neurotrauma
- The role of neuroinflammation following neurotrauma
- Secondary cascades implicated in inducing inflammation following neurotrauma
- Long-term behavioral manifestations of neurotrauma

Tentative titles of the articles

- the multitude of manifestations of neurotrauma associated neurodegeneration
- the role of neuroinflammation in neurotrauma
- the neurosurgery role in neurotrauma
- Vascular manifestations of neurotrauma
- ER stress and neurotrauma
- neurodegenerative manifestations following neurotrauma
- the role of infection and neurotrauma
- early intervention and outcomes following neurotrauma
- long term outcomes associated with neurotrauma

Schedule:

- ✧ Complete Thematic issue submission deadline: **1st December 2022**

Details of Guest Editors:

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