

## Special Issue on Traumatic Brain Injury: Mechanism, Diagnostics, and Therapeutics

# CALL FOR PAPERS

Traumatic brain injury (TBI) is a serious health problem in the United States and around the world. Approximately 1.7 million people sustain a TBI annually around the world. It is a complex process involving a broad spectrum of symptoms and long-term consequences including disabilities. It contributes to 30% of all injury-related deaths and costs about \$60 billion annually. TBI of any form, mild to severe, can cause intellectual and cognitive deficits and mood and behavioral changes in both short- and long-term and may lead to posttraumatic stress disorder (PTSD). Besides the psychological symptoms it may also cause immune system disorders and multiorgan damage. Repeated mild TBI (concussions) episodes may also lead to chronic traumatic encephalopathy (CTE). Despite the worldwide research efforts the mechanism of secondary neurodegeneration is still not clear. Consequently, diagnosing the injury and therapeutics is a challenge. Therefore, patient care and treatment options are also limited. Only further knowledge and understanding of the underlying mechanism of the condition and therapeutics can lead to improved outcome.

Contributions are invited from investigators worldwide in the form of original research articles as well as review articles in the field of TBI to understand the mechanism of molecular pathology underlying TBI induced neurodegeneration, diagnosis, development of therapeutic strategies, and treatment outcomes. New development in the field of molecular mechanism of TBI, biomarker development and advanced therapeutics involving small molecules, siRNA, gene therapy, stem cells, and immunotherapy are particularly welcome.

Potential topics include but are not limited to the following:

- ▶ Recent development in research of molecular mechanism of traumatic brain injury
- ▶ Inflammatory response in TBI
- ▶ Blood brain barrier and pathological changes induced by TBI
- ▶ Latest technologies in the field of diagnosis of TBI
- ▶ Biomarker identification in TBI
- ▶ Recent development in TBI therapeutic strategies
- ▶ Chronic traumatic encephalopathy (CTE) as an aftermath of repeated TBI

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/bn/tpimd/>.

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