

Special Issue

Neurobiology of Traumatic Brain Injury

Message from the Guest Editors

This Special Issue on "Neurobiology of Traumatic Brain Injury" aims to delve into the intricate mechanisms underlying traumatic brain injuries (TBIs) and their wide-ranging impacts on neural function and overall brain health. This Special Issue will encompass the latest research on the cellular and molecular pathways affected by TBIs, including neuroinflammation, neurodegeneration, and neuroplasticity. Additionally, it will explore the genetic and environmental factors that influence the recovery and development of chronic neurological conditions post-injury. We invite submissions that highlight innovative diagnostic tools, therapeutic strategies, and rehabilitation techniques designed to improve outcomes for patients with TBIs. By integrating multidisciplinary perspectives, this Special Issue seeks to enhance our understanding of TBIs and foster advancements in clinical practice and patient care. Keywords:

- traumatic brain injury (TBI)
- neuroinflammation
- neuroplasticity
- neurodegeneration
- molecular pathways
- genetic factors
- diagnostic tools
- therapeutic strategies
- rehabilitation techniques
- chronic neurological conditions

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A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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