

Special Issue

Blast-Induced Neurotrauma: Molecular Mechanisms Supported by Comparative Experimental and Clinical Findings

Message from the Guest Editor

Blast injuries attracted increased research interest after World War I. Since early 2000s, the BINT research has been intensified, recognizing the importance of the brain's response in the development of complex multi-organ responses to blast exposure(s). One of the greatest challenges, constant in BINT research, is the limitation of relying on animal models to reproduce real-life operational injury scenarios and clinically relevant pathology; this often limits the experimental findings' translational value to the clinical arena. The main goal of the Special Issue is to reflect our current understanding of molecular mechanisms underlying BINT and its neurological consequences, gained through clinical and experimental research, and discuss whether there is an alignment between findings gained using experimental models and those experienced in patients' population. Identifying the extent of the agreement between experimental and clinical findings is the first step in facilitating the progress of BINT research and reaching the ultimate goal: efficient early diagnosis and successful treatments.

Guest Editor

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