

Special Issue

New Advances in Surgical Treatment of Brain Injury

Message from the Guest Editors

Traumatic brain injury (TBI) remains a leading cause of disability and mortality worldwide, requiring continuous advancements in surgical treatment. This Special Issue focuses on the latest innovations in neurosurgical approaches to brain injury, highlighting minimally invasive techniques and innovations on invasive monitoring techniques that are transforming patient care. The aim is to provide a comprehensive overview of emerging strategies, including the introduction of intracranial compartment syndrome (ICS) as a key concept for personalized treatment. This issue will explore cutting-edge research in real-time intracranial pressure (ICP) and brain tissue oxygenation (PbtO₂) monitoring, novel surgical methods. We invite original research, clinical studies, and review articles that address novel surgical techniques, enhanced neuro-monitoring approaches, brain edema surgery, and the development of minimally invasive procedures aimed at improving patient outcomes.

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Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Brain Sciences* (ISSN 2076-3425). *Brain Sciences* is an open access, peer-reviewed scientific journal that publishes original articles, critical reviews, research notes, and short communications on neuroscience. The scientific community and the general public can access the content free of charge as soon as it is published.

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