



Neurotrauma: Mechanisms, Pathways, and Emerging Therapeutic Interventions

Guest Editors:

Dr. Kevin Pierre

Department of Radiology,
University of Florida, Gainesville,
FL, USA

Dr. Brandon Lucke-Wold

Department of Neurosurgery,
University of Florida, Gainesville,
FL, USA

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Message from the Guest Editors

Neurotrauma encompasses traumatic brain and spinal cord injuries. Its pathophysiological mechanisms, particularly primary injuries followed by secondary cascades like inflammation, oxidative stress, and excitotoxicity, merit further elucidation and serve as treatment targets. This Special Issue of *Biomedicines* focuses on the molecular and cellular pathways associated with neurotrauma. We aim to address advancements in diagnostic biomarkers, the utility of advanced imaging techniques, and the current and emerging treatments for neuroprotection and regeneration. We invite submissions of original research, reviews, and comprehensive studies that provide insights into these important areas.

The scope of this Special Issue includes but is not limited to:

- Primary and secondary injury mechanisms in neurotrauma;
- Molecular and cellular pathways in neurotrauma;
- Role of inflammation post-neurotrauma;
- Identification of new diagnostic biomarkers;
- Utility of advanced imaging techniques in neurotrauma;
- Therapeutic strategies focusing on neuroprotection and regeneration;
- Reviews on current and emerging trends in neurotrauma research.





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Editor-in-Chief

Prof. Dr. Felipe Fregni

1. Neuromodulation Center and
Center for Clinical Research
Learning, Spaulding
Rehabilitation Hospital and
Massachusetts General Hospital,
Harvard Medical School, Boston,
MA 02114, USA
2. Department of Epidemiology,
Harvard T.H. Chan School of
Public Health, Boston, MA 02115,
USA

Message from the Editor-in-Chief

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MDPI, St. Alban-Anlage 66
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