

Special Issue

Advances in the Fields of Neurotrauma and Neuroregeneration

Message from the Guest Editors

Neurotrauma, which mostly refers to traumatic brain injury (TBI) or spinal cord injury (SCI), is a world-wide major public health issue, characterized by a range of pathophysiological mechanisms. The purpose of this Special Issue is to gather original research articles, reviews, and perspectives to broaden our view on the field of neurotrauma and neuroregeneration, presenting approaches that have the potential to be translated into clinical practice. The subtopics of this issue include, but are not restricted to:

1. Postinjury microenvironment changes, covering BBB (BSCB) disruption, neuroinflammation, and cellular survival.
2. Neuropathic pain related to neuronal hyperexcitability, glutamate cytotoxicity, or chemokine release.
3. Neural regeneration due to axonal regrowth, remyelination, circuit rewiring, or endogenous recruit.
4. Novel therapeutic approaches including molecules, cells, noncellular organisms, gene therapies, biomaterials, or rehabilitative interventions.

Guest Editors

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Deadline for manuscript submissions

closed (31 October 2025)



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Message from the Editorial Board

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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