



Therapeutic Targets of Neuroprotection and Neurorestoration in Ischemic Stroke

Guest Editor:

Prof. Dr. Arieh S Solomon

Sheba Medical Center, Tel Aviv
University, Goldschleger Eye
Research Institute, Tel Aviv-Yafo,
Israel

Deadline for manuscript
submissions:

closed (31 January 2024)

Message from the Guest Editor

Dear Colleagues,

Stroke is one of the leading causes of death and disability worldwide. The current treatment strategies for ischemic stroke primarily focus on reducing the size of ischemic damage and rescuing dying cells early after occurrence. The pathophysiology of strokes is complex and it involves excitotoxicity mechanisms, inflammatory pathways, oxidative damage, ionic imbalances, apoptosis, angiogenesis, neuroprotection, and neurorestoration.

Multiple factors such as excitotoxicity, inflammation, angiogenesis, and neurogenesis are the main pathological processes that underlie acute and chronic ischemic brain injury. Furthermore, their intimate interactions mediate blood–brain barrier permeability and increase neurovascular unit structural damage, as well as hemorrhagic transformation during an ischemic stroke.

Neuroprotective and neurorestorative therapy represent two major drug intervention strategies for ischemic strokes.

The aims and scope of this Special Issue are to enhance our knowledge concerning the therapeutic targets of neuroprotection and neurorestoration in ischemic stroke.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Stephen D. Meriney

Department of Neuroscience,
University of Pittsburgh,
Pittsburgh, PA 15260, USA

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, PSYINDEX, CAPlus / SciFinder, and other databases.

Rapid Publication: manuscripts are peer-reviewed and a first decision is provided to authors approximately 12.9 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the first half of 2024).

Contact Us

Brain Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/brainsci
brainsci@mdpi.com
[X@BrainSci_MDPI](https://twitter.com/BrainSci_MDPI)