

Special Issue

Recent Advances in Pathophysiology and Therapeutic Approaches in Epilepsy

Message from the Guest Editors

Epilepsy is a common neurological disorder affecting about 70 million population around the world. The existing treatment options are limited to only relieving symptoms, but do not alter the progression. Furthermore, more than 30% of patients using existing antiseizure drugs are refractory to epilepsy and long-term use of these drugs can cause a plethora of adverse effects. Investigating biomarkers and underlying mechanisms of epileptogenesis may address the detailed pathophysiology for the progression and development of epilepsy in patients. The identification of drugs and therapies to prevent epilepsy is critical, yet is unmet in current pharmacological approaches. Therefore, basic studies aiming at testing the potential antiepileptic properties of new molecules are greatly needed. The main goal of the Special Issue is to present novel approaches from the clinical and basic research perspective about the development and progression of epilepsy as well as to address disease-modifying strategies. Additionally, we aim to explore new pharmacological targets and strategies, so we can help the development of new therapeutic strategies to prevent epilepsy and halt its progression.

Guest Editors

Dr. Chandra Prakash
Prof. Dr. Deepak Sharma
Dr. Pavan Kumar

Deadline for manuscript submissions

closed (30 September 2023)



Brain Sciences

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.6
Indexed in PubMed



mdpi.com/si/137888

Brain Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
brainsci@mdpi.com

[mdpi.com/journal/
brainsci](https://mdpi.com/journal/brainsci)





Brain Sciences

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.6
Indexed in PubMed



[mdpi.com/journal/
brainsci](https://mdpi.com/journal/brainsci)



About the Journal

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.

Editor-in-Chief

Prof. Dr. Stephen D. Meriney

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

Author Benefits

High Visibility:

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

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.6 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the second half of 2025).

Recognition of Reviewers:

reviewers who provide timely, thorough peer-review reports receive vouchers entitling them to a discount on the APC of their next publication in any MDPI journal, in appreciation of the work done.