

Special Issue

Adeno-Associated Virus-Based Gene Therapy for Neurological Disorders

Message from the Guest Editors

Neurological disorders are among the most difficult pathologies to treat because of the limited access to brain structures, which are protected by physical barriers such as the blood–brain barrier (BBB); the complexity of the CNS; and the multitude of cell types involved in disease progression. Gene therapy is an alternative to traditional pharmacological approaches that has made important advances in the past few years for treating diseases of the nervous system. Adeno-associated viral vectors (AAVs) have opened the opportunity of widespread targeting of the CNS due to their non-integrative and low immunogenic profile. While exciting progress has been made, AAV gene therapy is still a young and emerging field that faces multiple challenges and hurdles such as manufacturing, safety concerns at high doses, delivery to deeper brain structures and more. This Special Issue aims to address the current challenges and potential solutions by showcasing the advances in the research of AAV gene therapy for all kind of neurological disorders. We welcome all papers of original research, critical reviews, clinical trials, etc.

Guest Editors

Dr. Kathrin Meyer

Abigail Wexner Research Institute at Nationwide Children's Hospital,
Columbus, OH 43205, USA

Dr. Shibi Likhite

Abigail Wexner Research Institute at Nationwide Children's Hospital,
Columbus, OH 43205, USA

Deadline for manuscript submissions

closed (10 November 2024)



Brain Sciences

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.6
Indexed in PubMed



mdpi.com/si/175356

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.