

Special Issue

Immune Response Dysregulation in Neurological Infections: Diagnostic and Therapeutic Challenges

Message from the Guest Editor

Neurological infections represent a major challenge in medicine due to their complex interplay between pathogens and the host immune system. Dysregulation of immune responses within the central nervous system can result in neuroinflammation, neuronal injury, and persistent neurological deficits, often complicating both diagnosis and treatment. While recent advances have improved our understanding of these processes, many critical questions remain regarding the mechanisms of immune-mediated pathology and the development of effective interventions. This Special Issue aims to bring together original research, reviews, and case reports that address the diagnostic and therapeutic challenges posed by immune response dysregulation in neurological infections, including viral, bacterial, and emerging neurotropic pathogens. We particularly welcome studies on novel biomarkers, innovative therapeutic strategies, and translational research that bridges basic immunology and clinical practice. By fostering multidisciplinary collaboration, this issue seeks to advance knowledge and improve outcomes for patients affected by these complex disorders.

Guest Editor

Dr. Ryutaro Kajihara

Department of Hematology and Immunology, Faculty of Life Science,
Kumamoto University, Kumamoto 862-0976, Japan

Deadline for manuscript submissions

20 June 2026



Brain Sciences

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 6.0
Indexed in PubMed



mdpi.com/si/260532

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 6.0
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.