

Special Issue

Inflammation and Central Nervous System

Message from the Guest Editor

Chronic neuroinflammation can lead to neuronal damage, synaptic dysfunction, and ultimately cognitive and motor impairments. Neurodegenerative diseases, such as multiple sclerosis, Alzheimer's disease, and Parkinson's disease, and brain injury, such as stroke and traumatic brain injury, are strongly associated with inflammatory responses within the CNS. Moreover, systemic inflammatory states and peripheral immune activation can profoundly influence brain function by disrupting the blood-brain barrier and promoting neuroinflammatory cascades. Understanding the complex interplay between inflammation and CNS health is essential for developing effective therapeutic strategies.

This Special Issue aims to provide a comprehensive overview of the latest advancements in inflammation-related CNS research, highlighting current mechanistic insights and exploring novel diagnostic and treatment approaches. It will serve as a platform for neuroscientists, immunologists, and clinicians to share important breakthroughs and foster multidisciplinary collaborations in combating neuroinflammatory disorders.

Guest Editor

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Deadline for manuscript submissions

15 January 2026



Brain Sciences

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.6
Indexed in PubMed



mdpi.com/si/243239

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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.

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