

## Special Issue

# Neuroinflammation in Brain Health and Diseases

### Message from the Guest Editors

Neuroinflammation can be instrumental in both positive and negative aspects of brain physiology and functioning, where acute and transient neuroinflammatory responses are essential for removing pathogens, tissue repair, brain development, and chronic and persistent induction of neuroinflammation results in debilitating outcomes on neuronal functions, causing progressive neurodegeneration. It suggests that the impact of neuroinflammatory molecules must be context and time-dependent. Although microglia, the innate immune cell in the brain, is the central player in neuroinflammation, other cells including astrocytes, endothelial cells, and the infiltrated adaptive immune cells, significantly contribute to this process. It has been demonstrated that inhibiting critical neuroinflammatory pathways by anti-inflammatory molecules can attenuate neuronal loss and improve CNS functions. This Special Issue on 'Neuroinflammation' aims to showcase the recent investigations addressing the critical inflammatory pathways governing brain physiology and functions in health and diseases. This will highlight the potential neuroinflammatory pathways that can be considered for future drug development.

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### Guest Editors

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### Deadline for manuscript submissions

closed (31 January 2026)



## Cells

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*Cells* has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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### Editors-in-Chief

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