

## Special Issue

# Inflammation at the Nexus of Neurodegeneration: Cellular Mechanisms, Biomarkers and Therapeutic Targets

### Message from the Guest Editor

Neuroinflammation is increasingly recognised as a central driver, rather than a mere bystander, in diverse neurodegenerative diseases, including Alzheimer's disease, Parkinson's disease, amyotrophic lateral sclerosis, multiple sclerosis, retinal degeneration and rare inherited disorders. This Special Issue will highlight cellular and molecular inflammatory mechanisms that shape neuronal vulnerability and resilience, with a particular focus on microglia, astrocytes, peripheral immune cells, and the neurovascular unit. We welcome original research and reviews spanning innate and adaptive immune signaling; inflammasomes and cytokine networks; complement and chemokine pathways; crosstalk between metabolism, mitochondrial stress and inflammation; cell death pathways linked to inflammatory signaling; and the development of inflammatory biomarkers from tissue, CSF, blood and imaging. By integrating mechanistic, translational and clinical perspectives, this Special Issue aims to define how targeting inflammation can modify disease course and inform next-generation neuroprotective therapies.

### Guest Editor

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### Deadline for manuscript submissions

1 August 2026



## Cells

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## About the Journal

### Message from the Editorial Board

*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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