

## Special Issue

# Molecular Research on Microglia in Neurodegenerative Diseases

### Message from the Guest Editor

Microglia, the resident immune cells of the central nervous system, have emerged as critical regulators of brain homeostasis and pathology. Recent advances in single-cell technologies, spatial profiling, and disease modeling have revealed previously unrecognized heterogeneity in microglial states and functions. These discoveries are reshaping our understanding of their role in the initiation and progression of neurodegenerative disorders such as Alzheimer's disease, Parkinson's disease, and amyotrophic lateral sclerosis. This Special Issue aims to provide a platform for cutting-edge research and reviews that highlight microglial biology in the context of neurodegeneration. We welcome contributions spanning molecular mechanisms, cell–cell interactions, therapeutic targets, and translational approaches. By bringing together insights from diverse experimental models and patient-based studies, this collection seeks to advance the field and inspire novel strategies for diagnosis and intervention.

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### Guest Editor

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### Deadline for manuscript submissions

closed (28 February 2026)



## International Journal of Molecular Sciences

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### Message from the Editor-in-Chief

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