

## Special Issue

# The Role of Astrocytes in Neurodegenerative Diseases

### Message from the Guest Editor

Astrocytes, a prominent subtype of glial cells in the central nervous system, play crucial roles in metabolic support, structural integrity, and neuroprotection. Dysfunctions in astrocytes and their transformation into reactive states due to pathological stimuli have been linked to the pathogenesis of various neurodegenerative disorders. This Special Issue aims to highlight cutting-edge research on the involvement of astrocytes in the pathophysiology of neurodegenerative diseases. We invite submissions of original research articles, reviews, and communications that explore any aspect of astrocytic functions and dysfunctions in neurodegeneration. Topics of interest include, but are not limited to, the following:

- Molecular mechanisms underlying astrocyte–neuron interactions in neurodegenerative diseases;
- The role of astrocytes in the clearance of misfolded proteins and neurotoxic molecules;
- Astrocytic contributions to inflammation and neuroinflammatory responses;
- Implications of astrocytic dysfunction in synaptic dysfunction and neuronal death;
- Therapeutic strategies targeting astrocytes for neuroprotection and neuroregeneration.

### Guest Editor

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### Deadline for manuscript submissions

31 August 2025



## Biomolecules

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### Message from the Editorial Board

*Biomolecules* is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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