

Special Issue

Glia-Vascular Interactions in Brain Homeostasis and Neurological Disorders

Message from the Guest Editor

The Journal of *Neuroglia* invites original research and reviews for a Special Issue highlighting the rapidly evolving landscape of gliovascular communication. This issue focuses on how diverse vascular elements and networks—arterioles, venules, lymphatics, and capillaries—interact dynamically and reciprocally with astrocytes, microglia, and capillary-associated microglia (CAMs) to sustain brain homeostasis and coordinate responses to physiological and pathological stress. We welcome studies that uncover new modes of microglial sensing of vascular-derived signals, including hemodynamic fluctuations (such as pressure or flow changes), ischemic cues, and endothelial-derived molecular mediators. Submissions that dissect regional heterogeneity—whether driven by specialized vascular beds, distinct glial subtypes, or unique microenvironmental pressures—are of particular interest. Together, these contributions will help define the principles governing two-way communication at the gliovascular interface across health and disease, with special emphasis on mechanisms relevant to neurological disorders.

Guest Editor

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Deadline for manuscript submissions

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About the Journal

Message from the Editor-in-Chief

Neuroglia covers the critically important functions of the diverse range of cells within the nervous system that are collectively called glia. Our journal focuses on the development, function, and pathology of glia in the central and peripheral nervous systems, as well as how these cells can be used therapeutically to repair injuries and diseases of the nervous system. The journal welcomes research using the latest in vitro and in vivo animal and human research, with a view to its translation into potential human therapies.

Editor-in-Chief

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