

## Special Issue

# Biomarkers in Ischemic Stroke: From Discovery to Clinical Applications

### Message from the Guest Editor

Ischemic stroke remains a leading cause of mortality and long-term disability worldwide. Recent progress in biomarker research has deepened our understanding of the molecular and cellular events underlying ischemic brain injury and recovery, providing critical tools for early diagnosis, prognostic assessment, and therapeutic monitoring.

Emerging circulating biomarkers—such as neurofilament light chain (NfL), matrix metalloproteinases (MMPs), and inflammatory mediators—reflect neuronal injury, oxidative stress, and blood-brain barrier disruption. The integration of multi-omics profiling, neuroimaging signatures, and clinical indicators represents a major step toward personalized medicine in stroke care.

This Special Issue aims to highlight cutting-edge research spanning biomarker discovery, validation, and clinical translation in ischemic stroke. We welcome studies that bridge basic mechanisms and clinical implementation, including novel diagnostic, prognostic, and therapeutic biomarkers, that may enhance treatment efficacy and improve long-term neurological outcomes.

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### Guest Editor

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### Deadline for manuscript submissions

30 September 2026



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