

Special Issue

Brain Stroke Across the Lifespan: Mechanisms, Models, Translational Advances and Impacts Beyond the Brain

Message from the Guest Editor

Stroke affects individuals across all stages of life, including neonates, children, and adults, with distinct etiologies, pathophysiology, and clinical outcomes associated with each age group. Perinatal and pediatric strokes are frequently underdiagnosed and understudied, often leading to delayed intervention and a lack of age-specific, evidence-based treatment guidelines. In adults, the advent of intravenous thrombolysis and endovascular thrombectomy has markedly improved outcomes in eligible patients. However, these interventions remain limited by strict time windows and accessibility, leaving many without effective acute treatment options.

This research topic welcomes contributions that explore the impact of stroke on both the brain and peripheral systems. We encourage submissions focused on mechanistic studies, translational models, and clinical research that advance our understanding of stroke as a complex, multisystem condition. A deeper exploration of the interplay between cerebral injury, systemic physiology, and recovery processes is essential for the development of novel, effective therapeutic strategies across all age groups and stroke types.

Guest Editor

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