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Cerebral Hemorrhages: From Pathophysiologic Mechanisms to Therapeutic Strategies

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Deadline for manuscript
submissions:

closed (31 January 2025)

Message from the Guest Editor

Cerebral hemorrhages are a group of diseases that induce brain damage and subsequent functional impairment. Brain edema, vasospasm, breakdown of the blood–brain barrier, activation of microglia/macrophages, and remodeling of the perilesional environment are major pathological substrates in hemorrhagic stroke. A wide variety of conditions, risk factors, and disorders (such as hypertension, aneurysm, tumor, trauma, arteriovenous malformation, etc.) lead to cerebral hemorrhages, although the underlying pathophysiologic mechanisms remain unclear and effective treatments are limited.

This Special Issue focuses on the pathophysiologic mechanisms of primary and secondary brain injury, the mechanism of aging, mechanisms of impaired blood–cerebrospinal fluid barriers, and perilesional environment remodeling leading to immune cells infiltration and microbleeds. This Special Issue also welcomes articles that provide an overview of the role of white matter injury, phagocytosis, hemolysis, and immune system molecular mechanisms in the pathogenesis of cerebral hemorrhage diseases and corresponding treatment approaches.



mdpi.com/si/176309

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Message from the Editor-in-Chief

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