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Neuroinflammation: An Important Role in the Pathogenic Pathways of Cerebral Ischemia

By Mario Di Napoli

Nova Science Publishers Inc. Paperback. Book Condition: new. BRAND NEW, Neuroinflammation: An Important Role in the Pathogenic Pathways of Cerebral Ischemia, Mario Di Napoli, Ischemic stroke is a devastating clinical event. Increasing evidence suggests that inflammatory mechanisms are involved in the progression of post ischemic-induced brain injury. Cerebral ischemia is accompanied by a marked inflammatory reaction that is initiated by ischemia-induced expression of cytokines, adhesion molecules, and other inflammatory mediators, including prostanoids, extracellular proteases, reactive oxygen species and nitric oxide, leading to the accumulation of inflammatory cells, such as leukocytes and microglia. The inflammatory reaction, which has a rapid onset and continues after the stroke, is thought to acutely contribute to the evolution of tissue injury. Many compounds have been identified in cerebral ischemia, which are known to promote and sustain inflammatory responses. Better understanding of the role of the post ischemic-induced inflammatory response and its potential for modulation might have profound implications for patient treatment. Pre-clinical studies suggest that interventions that are aimed at attenuating such inflammation reduce the progression of brain damage that occurs during the late stages of cerebral ischemia. In particular, strategies that block the activity of inflammation-related enzymes reduce ischemic damage with an extended therapeutic window. In...

Reviews

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