Special Issue

New Insights into the Anti-inflammatory Role of Microglia

Message from the Guest Editor

Microglia act as the major inflammatory cell type in the brain responding to pathogens and injury. Microglia, for this reason, are considered as key players in the pathogenesis of multiple neurodegenerative and chronic neuroinflammatory diseases, such as Parkinson's disease (PD), Alzheimer's disease (AD), multiple sclerosis (MS), and amyotrophic lateral sclerosis (ALS). A neurotoxic and overactivated microglia population involved in promoting the loss of synapses and neurons and a pro-regenerative and neuroprotective microglia population capable of reducing disease progression and to promote the establishment of a brain healing environment. Recent studies strongly highlight that manipulation of microglial activation can affect the progression of neurodegenerative and chronic neuroinflammatory diseases modifying systemic inflammatory processes. The purpose of this Special Issue is to receive original research articles and reviews that focus on unraveling the role of the anti-inflammatory population of microglia by providing new insight into the current understanding of inflammatory based brain diseases.

Guest Editor

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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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