

Special Issue

Contribution of Astrocytes and Microglia for the Development of Neurological Disorders

Message from the Guest Editor

Astrocytes and microglia fulfill key homeostatic functions in the central nervous system (CNS). They are vital for neuronal function and survival, providing metabolic support and synaptic regulation, among many other functions. They also constitute the main immune system of the CNS and undergo dramatic morpho-functional changes in response to diverse stimuli, with subsequent beneficial or detrimental effects.

Neuroinflammation is a key pathophysiological finding in most diseases of the nervous system, being microglia and astrocytes its main regulator. In this special issue, we will focus on the contributions of microglia and astrocytes and their relationship in the genesis and progression of diseases affecting the nervous system, with emphasis on molecular research into the intricate molecular mechanisms underlying neurological disorders aiming to identify the genetic and biochemical pathways that contribute to disease progression and could be relevant for targeted therapies and improved diagnostic tools. Data on molecular mechanisms or pathophysiology are essential, and papers that only contain clinical trials/data will not be considered for the special issue.

Guest Editor

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