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Cerebral Production and Action of Pro-inflammatory Cytokines

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Deadline for manuscript
submissions:

closed (30 July 2021)

Message from the Guest Editor

The aim of this Special Issue is to better understand cytokine production and action in the brain beyond their involvement in local immune responses to an insult or infection of the central nervous system (CNS).

While the majority of the work on brain cytokine production and action has historically been on pro-inflammatory cytokines such as interleukin-1, it is important to realize that cytokines comprise many different biologically-active molecules and include interferons, interleukins, and chemokines, but also adipokines, such as leptin. Thus, several new perspectives have arisen on cytokine brain production and action that surpass the domain of classic neuroimmunology and seem closer in spirit to integrative physiology and behavior. These new perspectives can be expected to give rise to new potential therapeutic avenues of pharmacological intervention strategies.



mdpi.com/si/44835



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