

Special Issue

Impact of Systemic Inflammation on Neuroinflammation, Neurodegenerative Diseases and Mental Disorders

Message from the Guest Editor

Increasing lines of evidence suggest that both innate and adaptive immune responses in the body (systemic immune responses) can modulate the occurrence of neuroinflammation and activation of both microglia and astrocytes. Consequently, this will affect the progression of neurodegeneration and mental disorders. The body's immune responses can be stimulated by infection, wound injury, surgery, organ failure, obesity, stress/depression, and even psychiatric disorders. For example, inflammation triggered by periodontitis can further stimulate microglia to accelerate neurodegeneration in Alzheimer's disease. The aim of this Special Issue is to investigate (1) in what circumstances systemic immune responses modulate neuroinflammation and disease progression; (2) how immune cells including macrophages, neutrophils, and lymphocytes infiltrate the brain; (3) how these systemic immune cells interact with resident microglia or astrocytes to modulate neuroinflammation; and (4) whether there are any pharmacological and non-pharmacological interventions to prevent systemic inflammation.

Guest Editor

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Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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