

Special Issue

Molecular and Cellular Mechanisms in Inflammatory Synaptopathy

Message from the Guest Editor

In the past few years, three emerging concepts from different fields of neuroscience have significantly changed the current knowledge of the pathophysiology of neurological disorders: the concept of synaptic pathology or synaptopathy; the role of inflammation as a key factor influencing both the immature and mature brain; and the dysregulation of molecular mechanisms that drive synaptic transmission and plasticity. As technology has advanced, the ability to study the rich and complex diversity of each of these phenomena in detail has revealed their critical role in several brain pathologies. However, how these events are intermingled and cooperate in triggering or exacerbating neurological disorders is still not well understood. This Special Issue is dedicated to research articles and reviews on molecular and cellular aspects that link CNS inflammation and synaptic dysfunction and loss in both human and non-human studies. The emphasis will be on neuroinflammatory processes that characterize various neurodegenerative diseases as well as on genetic, epigenetic, and environmental factors contributing to neurodevelopmental disorders.

Guest Editor

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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