

Special Issue

Neuropharmacology and Neuroinflammation

Message from the Guest Editors

Neuropharmacology offers a comprehensive understanding of how drugs interact with specific molecular targets in the nervous system, demonstrating the influence of drugs over neuronal functions at the molecular, cellular, and systemic levels. It adds to the essential knowledge for developing new molecules intended to offer therapeutic benefits to individuals facing diverse psychiatric and neurological conditions. In a focused context, neuroinflammation refers to inflammation in the brain and spinal cord. This phenomenon entails the activation of immune cells within the central nervous system. Microglia and the resident macrophages are identified as crucial contributors to the initiation and progression of neuroinflammation. Moreover, microglia and astrocytes release pro-inflammatory mediators, including cytokines, chemokines, and reactive oxygen species, thus establishing inflammation. This Special Issue focuses on exploring research that addresses clinical and pre-clinical drug design, as well as organic synthesis aspects of neuroinflammatory alterations in neurological and psychiatric disorders, which includes epilepsy, depression, anxiety, and neurodegenerative diseases.

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You are invited to contribute a research article or a comprehensive review for consideration and publication in *Brain Sciences* (ISSN 2076-3425). *Brain Sciences* is an open access, peer-reviewed scientific journal that publishes original articles, critical reviews, research notes, and short communications on neuroscience. The scientific community and the general public can access the content free of charge as soon as it is published.

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