# **Special Issue**

# The Function of Glial Cells in the Nervous System: 2nd Edition

# Message from the Guest Editor

This Special Issue is a continuation of our previous Special Issue on "The Function of Glial Cells in the Nervous System". In nervous system homeostasis, glial cells, or neuroglia, play a collective role. Essentially all aspects of the nervous system's formation and function are orchestrated by the diverse and dynamic functions of glial cells. These include forming synapses, regulating synaptic transmission and plasticity, maintaining redox balance, maintaining ion and water homeostasis. establishing the blood-brain barrier, controlling toxicity in the extracellular space, and establishing myelin sheets. Furthermore, these cells play a crucial role in immune and inflammatory functions in pathological conditions, contributing to both healthy and diseased states with neurological outcomes. In this regard, a major objective of this Special Issue is to collect studies and reviews on glial cells and the glial-neuronal interaction rearrangements that occur during aging or in neurodegenerative diseases, possible glial biomarkers, as well as studies on therapeutic approaches with which to counteract these compromised mechanisms.

#### **Guest Editor**

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## Deadline for manuscript submissions

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# Message from the Editor-in-Chief

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## **Editor-in-Chief**

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